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# Washington University Record, February 17, 1977

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# WU Record

Published For The Washington University Community

February 17, 1977

## Social Work Establishes New Journal

WU's George Warren Brown School of Social Work is sponsoring a new journal in the field of social welfare, entitled *The Journal of Social Service Research*. The first issue of the quarterly publication is scheduled to appear in the fall of 1977, Dean Shanti Khinduka, chairman of the editorial board, has announced.

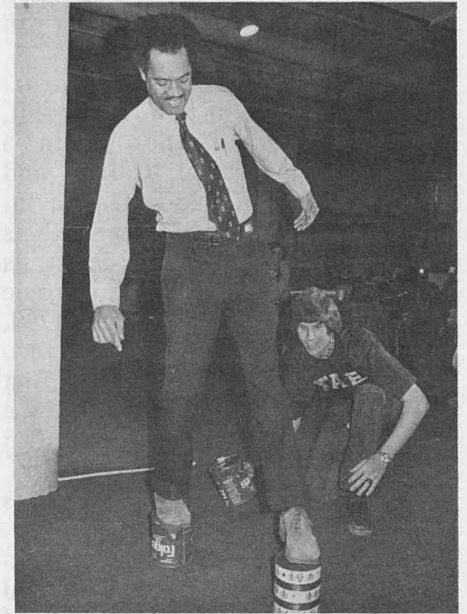
Explaining the decision to launch the new journal, Khinduka said that "For several years, many of us at GWB have been aware of the dearth of professional journals in social welfare directly concerned with publishing empirically-oriented research papers." The journal, therefore, will present papers ranging from clinical research to empirical policy studies.

"The journal will be worthy of sharing with the national scientific community," Khinduka said. "We will seek contributing authors from a national, and ultimately, an international group of researchers, educators, doctoral students, social scientists, practitioners and administrators."

The journal will be published by Haworth Press, a New York City publishing company, which has agreed to underwrite production costs for the initial five years of the publication.

An executive board of editors, will consist of the following GWB faculty members: William Gordon, Martin Bloom and Martha Ozawa, professors of social work; Aaron Rosen, professor of social work and chairman of the University's research-oriented Ph.D. program; William Butterfield, assistant dean, and Duncan Lindsey, assistant professor of social work. Mary Aversa, director of the Learning Resources Center, is also on the board.

A national editorial review board, consisting of nationally-recognized social service researchers, will collaborate with GWB's executive board in soliciting, screening and reviewing manuscripts received for publication in the journal.



Herb Weitman

Can you believe this? Chancellor William H. Danforth (left) and Associate Vice Chancellor for Student Affairs Paul Smith are off and running (?) in the First Annual Tin Can Derby. The derby, held in Mallinckrodt Center Feb. 15, announced the Muscular Dystrophy Dance Marathon, March 4 and 5. Sophomore John Gregory aided Dr. Danforth and junior Al Becker, Smith.

## Higher Utility, Fringe Benefit Costs Behind Proposed Tuition Increase at WU

Higher utility, fringe benefit and social security costs are among the causes directly responsible for the University's proposal to increase tuition for the 1977-78 academic year, WU Provost Merle Kling said recently.

The exact amount of the increase has not been determined, but is expected to be about \$300. The increase will affect undergraduate and graduate students in schools within the central fiscal unit, which are: the College and Graduate Schools of Arts and Sciences, the Schools of Fine Arts, Architecture, and Business and Public Administration.

The amount of revenue provided by a tuition increase would be approximately the equivalent of increases in utility costs, Kling said. During the 1976-77 academic year, the University will pay approximately \$1,675,000 for gas, coal and electricity, a 25.4 per cent increase over last year. It is expected that during the 1977-78 academic year, WU will spend approximately \$2.2 million on utilities, or 25.3 per cent more than

this year. Both estimates, Kling added, were made before January 15 and some of the winter's coldest temperatures which pushed up energy consumption.

Kling pointed out that increased utility costs during the past five years have been due solely to higher prices, rather than increased fuel consumption, even though the University has added a number of new buildings to the campus, including Mallinckrodt Center and the Mudd Law Building. "Through energy conservation efforts such as additional pipe insulation and clocking devices, the University has been able to keep consumption down. With this winter's unusually cold weather, however, consumption is up as well as prices," Kling said.

Employee-related benefits and social security will also cost the University more during the 1977-78 academic year. Since January 1, both employees and the University have been paying higher social security taxes. The University's portion for employees has increased 8 per cent over last year's.

(Continued on page 3)



## WU Scientist, National Geographic Team Zero In On Oilbirds

Oilbirds? Ask most laymen what they are and the answer will probably be—those poor creatures that are unfortunate enough to swoop into water smeared with a slick from a damaged or sinking tanker.

Some scientists and Audubonites, however, know that there is an animal called the oilbird, which was first sighted by the 18th century scientist, explorer and diplomat, Alexander von Humboldt.

This bird, named *Steatornis caripensis* by Baron von Humboldt, because he came upon it in a Venezuelan cave called "Caripe" and discovered that it had extensive fat deposits, can, like the bat, "see with its ears." Humboldt did not detect its curious sonar abilities, but it is ironic that he discovered these birds in 1799, the year that the naturalist Lazzaro Spallanzani died, after being the first in 1793 to show that bats could, by a then unknown process associated with hearing, avoid obstacles in the dark.

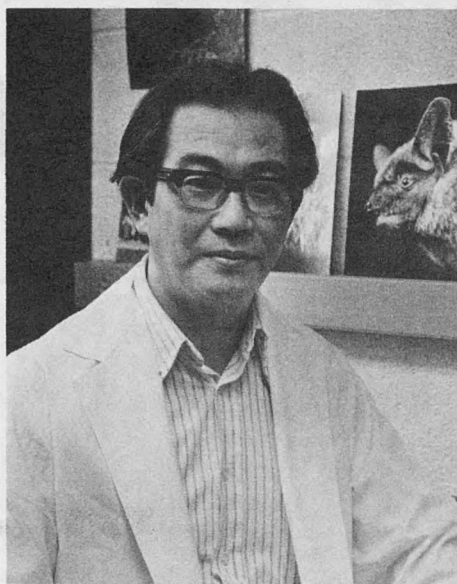
Last December, some 177 years later, WU neurophysiologist Dr. Nobuo Suga was invited to join an expedition sponsored by the National Geographic Society for the purpose of studying these strange birds.

Suga, an expert on the auditory mechanism of bats, was a logical choice. He had trained under Dr. Donald R. Griffin, who in the thirties, observed and recorded for the first time the high-pitched sounds emitted by bats. Griffin analyzed the echoes from these sounds as they bounced off objects, and determined that this technique, called echo-location, was the secret of the bats' ability to navigate by picking up sound signals through their ears.

Last year, when Suga and the rest of the National Geographic party departed for South America to study oilbirds, he was following in the footsteps of his mentor Griffin. For it was Griffin, who, on a trip in 1953 to Caripe, proved conclusively that oilbirds also have the ability to navigate by means of an echo-location system.

Suga and the other members of the National Geographic team, however, headed for Cave Cunday, just outside Bogata, Colombia, because Venezuelan law has effectively walled off scientific investigation of oilbirds at Caripe. The National Geographic safari owed its impetus to Dr. Rudolfo Llinas, who as a native Colombian, was aware of the oilbird colony at Cave Cunday.

In addition to Suga and Llinas, the expedition team included: Dr. Mark



Richard N. Levine

**Dr. Nobuo in his WU laboratory. A close-up of a bat is in the background.**

Konishi and Dr. John D. Pettigrew, both of the California Institute of Technology; Dr. Sven O. E. Ebbesson from the University of Puerto Rico; and Dr. Harvey J. Karten from the State University of New York at Stony Brook.

During their three-week expedition (Dec. 2-22), the National Geographic group learned as much about the protocol necessary to study animals in a foreign country as they did about the oilbirds themselves.

Previously, the scientists had made arrangements to set up their research base at the Neurology Institute in Bogata, directed by Dr. Jaime Gomez-Gonzalez, and had been assured that an animal-collection permit would be waiting for them when they arrived at Bogata. Meanwhile the U.S. Embassy at Bogata had guaranteed the National Geographic party that there would be no trouble getting its expensive equipment through customs.

But, as usual, the best laid plans of men went astray. Instead of hopping a helicopter for Cunday after landing at Bogata, the National Geographic team was seriously delayed when it was informed that no animal-collection permit would be issued until they fulfilled two conditions. These were: to prepare and present a document to Colombian governmental authorities stipulating that their Cunday venture would benefit the cause of Colombian science and scientists; and to invite a Colombian scientist from the National Institute of Health or the National

University to join the party of investigators.

Dr. Rosas Fernando, a Bogata neurologist, helped the National Geographic team to satisfy these requirements. He and three of his co-workers joined the expedition. Satisfied that everything was in order, the Colombian officials finally issued the coveted animal permit on Dec. 15.

The scientific equipment, meanwhile, sat on the loading dock for a week until the U.S. Embassy staff and a customs broker were at last able to break the stranglehold imposed by the Colombian authorities.

Suga emphasized that he readily understood the rationale of Colombia's position. "I believe very strongly that the era when alien scientists were wont to capture animals and pursue research in foreign countries merely to satisfy their own purposes is over. The time has come for scientists to cooperate with their colleagues in other lands and to share their findings with these collaborators," he said.

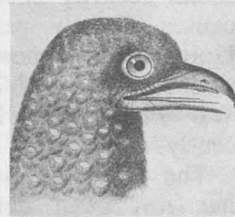
Ultimately, however, the National Geographic team was free to concentrate all of its energies on the oilbirds. An oilbird, predominately dark brown and about the size of a crow, has a curved beak and a raucous rattling shriek which has led the Indians to call it guacharos ("one who cries and laments.") The birds also make a clicking sound, which apparently enables them to make their way in even stygian blackness.

The National Geographic team was able to assemble valuable scientific data on the birds and their habits. They determined that oilbirds, apparently, rely on their sonar system for short-range expeditions; for long-range navigation they probably use their eyes which are quite large. Konishi, Suga, and Pettigrew recorded the orientation sounds the oilbirds make and plan to analyze them in depth in their laboratories.

The scientists determined that oilbirds have extraordinarily good hearing and can detect high frequencies of up to 24 kilocycles. By comparison, canaries and pigeons can hear only up to 10 and 7.5 kilocycles, respectively. The team also demonstrated that the oilbird auditory system is able to respond to echoes from targets as near as 10 inches.

With specimens brought back from Colombia, the National Geographic team members continue to work in their laboratories to learn more about oil birds and the sound signals they use to guide their flight in darkness.

(Dorothy Brockhoff)



An oilbird



## Monthly Speakers Series Offered by WU Alumni Club

The Washington University Alumni Club, 335 Mansion House Center, is offering a monthly speakers series at its noon luncheons.

Stanley Spector, WU professor of Chinese Studies, spoke on "The New China" in late January. W. G. Twyman, port administrator for the City of St. Louis, will speak on Wed., Feb. 23, on "The Port District's Effect on the Economy of the City of St. Louis." Other speakers will be announced later.

The Washington University Alumni Club is open to anyone who has completed 30 hours of credit during day or evening programs at the University. Monthly dues are \$15. A special junior membership is available for alumni under the age of 30. Monthly dues are \$7.50. The initiation fee for new members is being waived indefinitely.

The Club's hours are as follows: lunch, 11 a.m. to 2 p.m., Monday through Friday; dinner, 6 p.m. to 9 p.m., Friday and Saturday. Special events, such as brunches for Mother's Day and Easter and parties on New Year's Eve and Valentine's Day, are also held by the Club.

For further information, call Jean Walsh at 231-1151, or Allen Martin at 863-0100, ext. 4751.

JACK KIRKLAND, associate professor of Black Studies and Social Work, was recently appointed to head the Missouri Department of Transportation by Governor Joseph P. Teasdale. The appointment will put Kirkland in charge of mass transit, airport and port development throughout the state. During his new appointment, Kirkland will be on leave of absence from WU, although he will continue to teach part-time this semester.

A "HOW TO GET A JOB YOU WANT" SEMINAR will be held at WU, Wed., March 2, from 6:30 to 9:30 p.m. in the January Hall Conference Room. Seminar leaders will be Virginia T. McCarthy, syndicated columnist and career consultant, and Charles Lapp, WU professor of marketing and career placement specialist. The registration fee is \$10. For further information, call ext. 4261 or ext. 4889. To enroll, send check to box 1099.

The **WU Record** is published weekly during the academic year by the Information Office. Editor, Janet Kelley; calendar editor, Charlotte Boman. Address communications to Box 1142.

## ANNOUNCEMENTS

**PEACE CORPS AND VISTA RECRUITER** Bert Rava will be on campus Tues., Feb. 22, through Fri., Feb. 25. Students interested in interviewing with him must be seniors or graduate students. Rava will be in the lobby of Holmes Lounge on Feb. 22 from 9 a.m. to 4 p.m. He will be at the University Placement Service, 150 Umrath Hall, from 8:30 a.m. to 5 p.m. (closed from noon to 1 p.m.) on Feb. 23 and 24. Students must make appointments at Umrath by Feb. 18. Rava will be at Engineering Student Placement, 201 Bryan Hall, from 8:30 a.m. to 5 p.m. (closed from noon to 1 p.m.) on Feb. 25. Students who wish to meet with him there should register at Bryan. If unable to interview with Rava on these dates, write him at 438 N. Skinker Blvd., St. Louis, Mo. 63101.

MARY BREUER, a senior consultant with Ernst and Ernst, accountants, will be the speaker in the Very Interesting Women lecture series Thurs. Feb. 24, at noon in the Women's Building Lounge. Educated as a city planner, Breuer has worked on a wide range of planning projects, including a "new town" development in England. Currently, she serves as a consultant and government liaison for public sector organizations.

COMPUTER LITERATURE SEARCHING can help you keep up with what's going on in your field. Olin Library's Data Services can conduct retrospective searches for \$12 to \$20. Monthly standing searches of new publications average about \$8 a month. For further information, call Gwen Levine, ext. 4572, or stop by at Room 199A, Olin Library.

THE WU ALUMNI ASSOCIATION OF TAIPEI is sponsoring a one-year annual scholarship for a WU student to pursue Chinese language and cultural studies. The scholarship will cover all academic expenses for the year. For further information, call or write: Professor George Hatch, ext. 4455, box 1062; Professor Robert Hegel, ext. 4380, box 1111; or Ken Rogers, ext. 4236, box 1083.

DURABLE DANCERS are needed as sponsored couples in the 1977 "Dance for Those Who Can't" Dance Marathon for muscular dystrophy, Fri., March 4, and Sat., March 5, in the Field House. Sponsored by WU sorority and fraternity Phi Xi and Sigma Alpha Epsilon, the dance will be from 8 p.m. Friday to 8 p.m. Saturday. Call 721-6869 or 862-4272 for information.

## Tuition

(Continued from page 1)

The cost to WU for its contribution to employees' Major Medical and Blue Cross insurance is up 21 per cent.

"All types of insurance and services have increased in price and promise to continue to do so. Group life insurance, annuity, fire insurance on our physical plant and service-repair contracts are among those which have increased. Many necessary items, such as library books, have also increased in price," Kling said. "Because of these increases and the greater expenditures they mean for the University, money is not being budgeted for a number of areas, including maintenance and repair of campus buildings—some of which need major work on their roofs and interiors."

Although some faculty salaries are expected to be increased in fiscal year '78, Kling said that the revenue from a tuition increase would not provide funds for these raises. Kling also said that, in a survey of comparable universities, average compensation for WU professors and associate professors was lower than those of any other institution in the survey.

The University is always seeking new sources of income, Kling said, but at the present time it cannot expect to receive enough additional revenue, either from new or regular sources, to avoid raising the tuition. It is estimated that the University's revenue from gifts and endowment will increase approximately 5 per cent during fiscal '78, but this increase, Kling said, is slight compared to increased costs.

"It is important to note that the endowment income produced by the \$60 million Danforth Foundation Grant does not represent new income, but rather replaces the \$3 million provided annually by direct grants from the Danforth Foundation," Kling said. "Further, the approximately \$61 million raised to match the grant has helped the central fiscal unit only modestly, because the major part of the money raised was restricted—earmarked for special purposes."

Kling pointed out that universities across the country are expected to raise their tuitions for the 1977-78 academic year in order to meet rising utility and service costs. "Many of the raises at other institutions," Kling added "promise to be greater than the amount of the tuition increase proposed at WU."

W. S. C. CHANG, the Samuel L. Sachs Professor of Electrical Engineering, has been selected to serve on the IEEE Quantum Electronics Joint Council.



## Calendar

February 18-24

MONDAY, FEBRUARY 21

**2:30 p.m. Department of Biomedical Engineering Seminar**, "Clinical Laboratory Test Evaluation Using Pattern Recognition Techniques," J. Lewis, WU prof. of laboratory medicine. 313 Urbauer.

TUESDAY, FEBRUARY 22

**7 p.m. Pre-Medical Society Slide Lecture**, "Maxillo Facial Surgery," John J. Dann III, dentist and WU Medical School student. Umrath Lounge. Refreshments will be served.

**7:30 p.m. Undergraduate Political Science Association Dialogue**, "The Politics of Government Regulation," James Davis, WU prof. of political science, and Murray Weidenbaum, Edward Mallinckrodt Distinguished University Professor. In celebration of George Washington's 244th birthday. Mudd Hall Courtroom. Refreshments will be served.

**8:30 p.m. School of Architecture Lecture**, Aldo Rossi, architect from Milan, Italy, speaking on his recent work. Steinberg Auditorium.

WEDNESDAY, FEBRUARY 23

**1 p.m. Edison Theatre Lecture**, "Who is Clive Barnes and Why Is He Writing These Things About Me," Gene Feist, producing director of Off-Broadway's Roundabout Theatre in New York. Edison Theatre.

**3 p.m. George Warren Brown School of Social Work Colloquium**, "Models for Assessing Practice Effectiveness with Individual Clients," Joel Fischer, WU visiting prof. of social work, U. of Hawaii. Brown Lounge.

**4 p.m. Department of Physics Colloquium**, "A Good Tempered Wind Instrument," Arthur Benade, prof. of physics, Case Western Reserve U., Cleveland, Ohio. 201 Crow.

THURSDAY, FEBRUARY 24

**12 noon. Very Interesting Women Series**, Mary Breuer, senior consultant. Ernst and Ernst, accountants. Women's Bldg. Lounge.

**4 p.m. Department of Anthropology Colloquia Series Lecture**, "The Hilly Flanks in Retrospect," Robert J. Braidwood, prof. of anthropology, Oriental Institute, U. of Chicago. Women's Bldg. Lounge.

**4 p.m. Department of Chemistry Seminar**, "N.M.R. Studies of Ultra Slow Diffusion in Solid Neon," Richard Norberg, chairman, WU Department of Physics. 311 McMillen Lab.

**8:30 p.m. School of Architecture and Urban Research and Design Center Lecture**, "Central Washington Transportation and Civic Design Study," Joseph Passonneau, architect and planner, Washington, D.C., and former Dean of the WU School of Architecture. Steinberg Auditorium.

### FILMS

FRIDAY, FEBRUARY 18

**8 p.m. WU Filmboard Series**, "Godfather Part II." Brown Hall Theatre. Admission \$1.25 (Also Sat., Feb. 19, 8 p.m., Brown; and Sun., Feb. 20, 8 p.m., Wohl Center line D.)

**12 midnight. WU Filmboard Series**, "A Thousand Clowns," with Jason Robards. Brown Hall



**Jazz bassist Charles Mingus and his quintet will appear in concert Tues., Feb. 22, at 9 p.m. in Graham Chapel. Tickets are available at Edison Theatre Box Office.**

Theatre. Admission \$1. (Also Sat., Feb. 19, midnight. Brown.)

TUESDAY, FEBRUARY 22

**12 noon. Tuesday Noon Film Series**, "No Tears For Rachel," "Fear" and "Hungry Harbor Road." Mallinckrodt Center Gallery. Co-sponsored by Women's Programming Board and Office of Campus Programming.

**5:30 p.m. Crafts Guild Film Festival**, "A Williamsburg Sampler" and "Cooper's Craft," both art films. Wohl Center Formal Lounge.

**7:30 and 9:30 p.m. WU Filmboard Series**, "To Have and Have Not," directed by Howard Hawkes, with Humphrey Bogart and Lauren Bacall. Brown Hall Theatre. Admission \$1.

WEDNESDAY, FEBRUARY 23

**3:30 p.m. WU Filmboard Series**, "Royal Wedding," with Fred Astaire. Brown Hall Theatre. Admission \$1.

**7:30 p.m. WU Filmboard Series**, "Voyage Surprise," and "Grand Illusion" (9:30 p.m.), the latter directed by Renoir. Both in French with subtitles. Brown Hall Theatre. Admission \$1.25 for both films. (Also Thurs., Feb. 24, same times, Brown.)

### EXHIBITIONS

**"Mechanisms of Meaning,"** a series of non-representational drawings, collages and water colors, completed from 1961 to 1976 by Japanese artist Arakawa. Steinberg Gallery, lower level. 9 a.m.-5 p.m. Mon.-Fri.; 10 a.m.-4 p.m. Sat.; 1-5 p.m. Sun. Through March 13.

**"Shinjuku: The Phenomenal City,"** an exhibit of photographs, banners, signs and maps of this shopping and entertainment area in the heart of Tokyo. Steinberg Gallery. 9 a.m.-5 p.m. Mon.-Fri.; 10 a.m.-4 p.m. Sat.; 1-5 p.m. Sun. Through Feb. 28.

**"Contemporary Poetry Broadides,"** an exhibit of poetry and art work presented together on a unique but traditional medium, the broadside. Olin Library, level 5. 8:30 a.m.-5 p.m. Mon.-Fri. Through March 31.

### MUSIC

FRIDAY, FEBRUARY 18

**8 p.m. Department of Music Graduate Piano Recital**, Bonnie Hough, soloist. Her program will include works by Bach, Beethoven, Chopin, Debussy, Schoenberg and Liszt. Graham Chapel.

SUNDAY, FEBRUARY 20

**8 p.m. Performing Arts Area Piano Recital**, Steven Radecke, PAA artist-in-residence, soloist. His program will include his own compositions and works by Boulez, Berg, Bartok and Beethoven. Edison Theatre.

TUESDAY, FEBRUARY 22

**9 p.m. Student Union Concert Committee Concert**, the Charles Mingus Quintet. Graham Chapel. Advance admission \$4.50; \$3.50 with WU Student Union card or St. Louis U. ID. \$5.50 for all at the door. Tickets available at Edison Theatre Box Office, UMSL and St. Louis U. box offices; Peaches, Streetside, Joe's Music and Regal Sports.

WEDNESDAY, FEBRUARY 23

**11 a.m. Assembly Series Concert**, with tenor Dean Rhodus, soloist, who is currently an Affiliate Artist in residence in the St. Louis area. Graham Chapel. Sponsored by the Academic Committee.

### PERFORMING ARTS

SATURDAY, FEBRUARY 19

**8 p.m. Omaha Opera Company Performance**, "Don Pasquale," by Donizetti. Edison Theatre. Admission \$4.50; \$3.50 for WU faculty/staff and students not from WU; and \$2 for WU students. Tickets available at Edison Theatre Box Office.

THURSDAY, FEBRUARY 24

**8 p.m. Thyrsus Production**, "Godspell." Mallinckrodt Center Drama Studio.

CHARLES EAMES, a former student in the WU School of Architecture and now an internationally famous designer and architect, has been elected to the American Academy and Institute of Arts and Letters. Last fall, poet Howard Nemerov, WU Edward Mallinckrodt Distinguished University Professor of English, and alumnus Tennessee Williams, already members of the Institute, were elected to the Academy. Fifty of the Institute's 250 members hold dual membership in the Academy. All three men will be inducted formally on May 18. Eames's election to the Academy is a first; no other artist working primarily in the design field has been chosen before.

A. PETER MUTHARIKA, WU associate professor of law, has recently published *The Regulation of Statelessness Under International and National Law*. The book, whose first annual supplement is scheduled for publication in June, is considered to be the definitive work on the law of statelessness.